CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SPE/W.No.13/2020-21 Date: 26.03.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.
NAME OF THE WORK	:	Providing and Supplying Drinking Water in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		February - 2021
DATE OF TESTING		24.03.2021 to 26.03.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Prajwal

Authorised Signatory

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21

Date : 26.03.2021

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S), Contractor, Bangalore.

Name of Work : Providing and Supplying Drinking Water in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing : 26.03.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	174	3.5	3.5	96.5	95-100
10	2436	48.7	52.2	47.8	25-55
4.75	1985	39.7	91.9	8.1	0-10

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21 Date : 26.03.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.
Name of Work : Providing and Supplying Drinking Water in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.
Date of Testing : 26.03.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	189	1.26	1.26	98.74	95 100
20	8255	55.03	56.29	43.71	30 70
10	3215	21.43	77.73	22.27	10-35
4.75	2852	19.01	96.74	3.26	0-5

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21

Date : 29.03.2021

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

Name of Work : Providing and Supplying Drinking Water in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 29.03.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	195	195	2.0	98.1	95-100
22.4	2530	2725	27.3	72.8	60-80
11.2	2165	4890	48.9	51.1	40-60
4.75	1852	6742	67.4	32.6	25-40
2.36	1150	7892	78.9	21.1	15-30
0.600	598	8490	84.9	15.1	8-22
0.075	1215	9705	97.1	3.0	0-5

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21 Date: 04.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore

Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

Name of the work : Providing and Supplying Drinking Water in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.04.2021	04.05.2021	8.178	725.3	32.24
2	06.04.2021	04.05.2021	8.192	716.8	31.86
3	06.04.2021	04.05.2021	8.165	708.9	31.51

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21 Date : 24.03.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

Name of Work : Community Property maintenance (Including building and parks) in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

Date of Testing : 24.03.2021

Material : Sand - Plastering Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	12	1.20	1.20	98.8	95-100
2.36	18	1.80	3.00	97.0	95-100
1.18	35	3.50	6.50	93.5	90-100
600 Micron	76	7.60	14.10	85.9	80-100
300 Micron	265	26.50	40.60	59.4	20-65
150 Micron	488	48.80	89.40	10.6	0-15

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REQUIREMENTS AS PER IS: 1786 - 2008 Table 1, Cl 6.2

NOMINAL MASS AND TOLERANCES OF BARS

S.No	Nominal size (dia) (mm)	Mass per metre (kg/metre)	Tolerance on the nominal mass	
			Batch	Individual sample
1	4	0.099	± 7%	- 8%
2	5	0.154	± 7%	- 8%
3	6	0.222	± 7%	- 8%
4	8	0.395	± 7%	- 8%
5	10	0.617	± 7%	- 8%
6	12	0.888	± 5%	- 6%
7	16	1.58	± 5%	- 6%
8	20	2.47	± 3%	- 4%
9	25	3.85	± 3%	- 4%
10	32	6.31	± 3%	- 4%
11	36	7.99	± 3%	- 4%
12	40	9.86	± 3%	- 4%
13	45	12.49	± 3%	- 4%
14	50	15.42	± 3%	- 4%

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Requirement As Per IS 1077:1992

Table 1.Classes of Common Burnt Clay Brick		
Class Designation	Average Compressive Strength not Less Than	
	N/mm^2	(kgf/cm^2) (approx)
35	35	350
30	30	300
25	25	250
20	20	200
17.5	17.5	175
15	15	150
12.5	12.5	125
10	10	100
7.5	7.5	75
5	5	50
3.5	3.5	35

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21 Date: 26.04.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

Name of the work : Community Property maintenance (Including building and parks) in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Plinth Beam

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2021	26.04.2021	8.206	635.6	28.25
2	29.03.2021	26.04.2021	8.198	645.2	28.68
3	29.03.2021	26.04.2021	8.188	629.3	27.97

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Job No.: CACE/BBMP/SPE/W.No.13/2020-21 Date: 05.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **M/s. Shree Priya Enterprises (Prop. Sri. Hemanth Kumar S),** Contractor, Bangalore.

Name of the work : Community Property maintenance (Including building and parks) in Ward No.13 Mallasandra Shettyhalli Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Lintel

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2021	05.05.2021	8.189	633.3	28.15
2	07.04.2021	05.05.2021	8.175	646.5	28.73
3	07.04.2021	05.05.2021	8.192	628.9	27.95

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